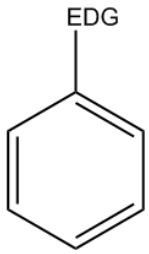
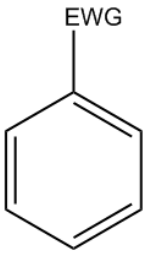
CONCEPT: EAS – MONOSUBSTITUTED BENZENE

Substituents alter the electron density of benzene rings, affecting reactivity toward *subsequent EAS* in two ways:

1. Activity Effects
    - Electron Donating Groups EDG's _____ the ring toward reactions
    - Electron Withdrawing Groups EWG's _____ the ring toward reactions
2. Directing Effects
    - Electron Donating Groups EDG's tend to be _____, _____ directors
    - Electron Withdrawing Groups EWG's tend to be _____ directors

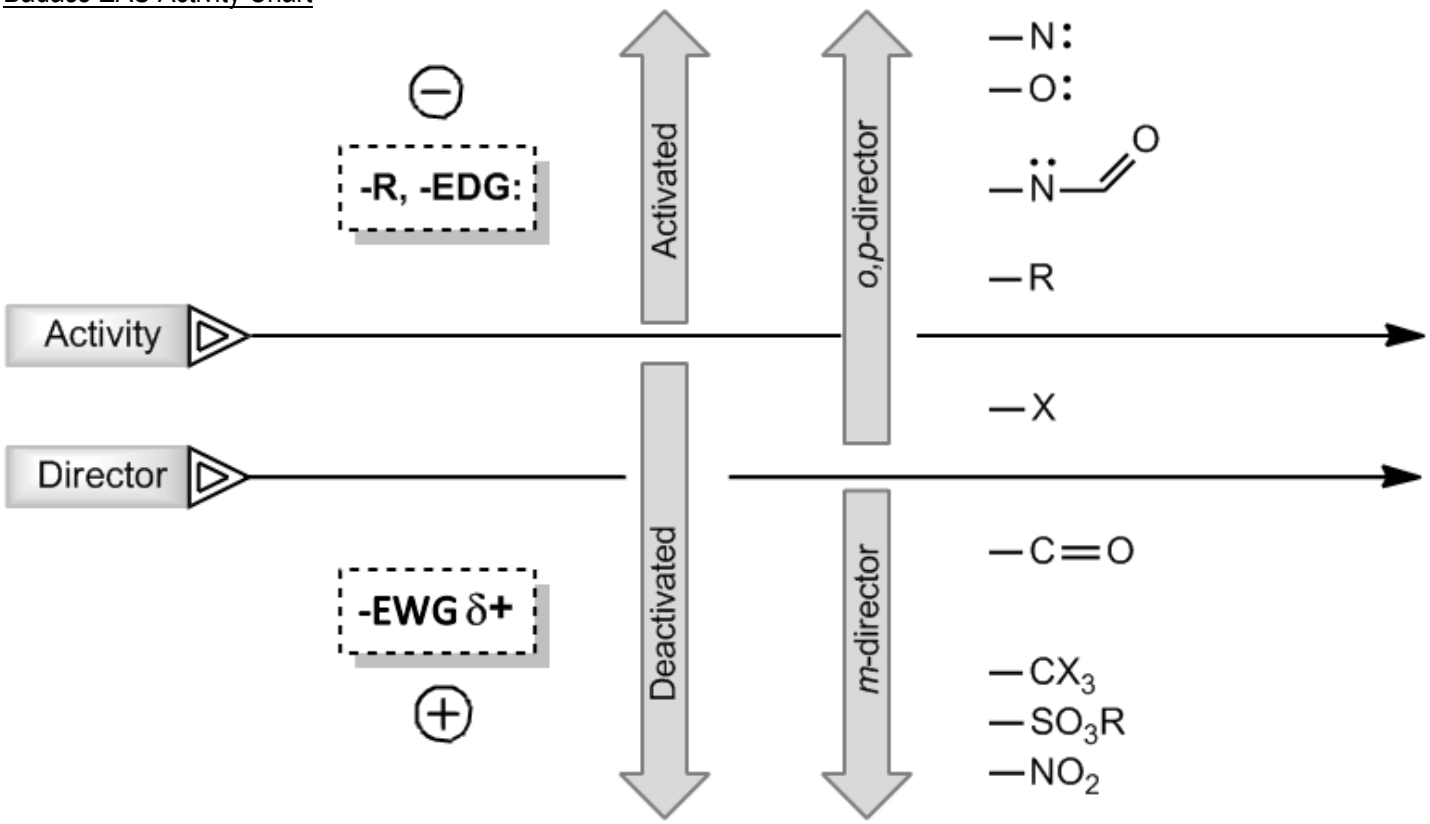


***o,p*-director**

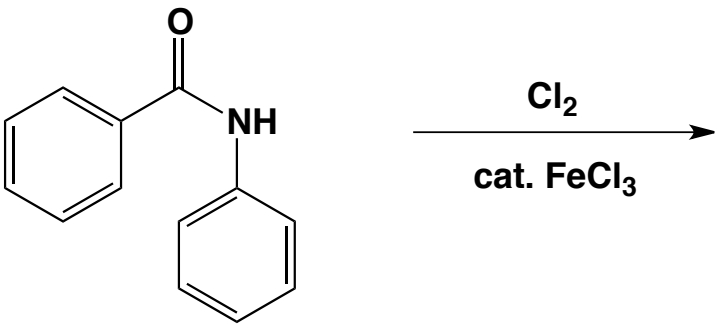


***m*-director**

Badass EAS Activity Chart



PRACTICE: Predict the major products of the following EAS reaction.



PRACTICE: Predict the product of the following multi-step synthesis.